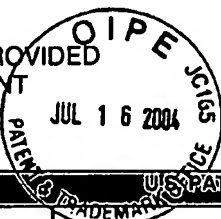


FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815,276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
P. M. McAllister et al.FILING DATE
April 1, 2004

GROUP ART UNIT

REFERENCE DESIGNATION							
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
/RB/	AA	3,563,913	2/16/71	de Krijger et al.	252	463	
/RB/	AB	3,563,914	2/16/71	Wattimena	252	463	
/RB/	AC	3,844,981	10/29/74	Cusumano	252	471	
/RB/	AD	3,937,476	2/10/76	Sakai	274	39 A	
/RB/	AE	3,962,136	6/8/76	Nielsen et al.	252	454	
/RB/	AF	3,962,285	6/8/76	Cusumano	260	348.5 R	
/RB/	AG	4,207,210	6/10/80	Kilty	252	463	
/RB/	AH	4,212,772	7/15/80	Mross et al.	252	476	
/RB/	AI	4,458,032	7/3/84	Rebsdatt et al.	502	348	
/RB/	AJ	4,471,071	9/11/84	Rebsdatt et al.	502	347	
/RB/	AK	4,728,634	3/1/88	Boxhoom et al.	502	243	

FOREIGN PATENT DOCUMENTS								
		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
/RB/	AM	1,920,976	11/6/69	Germany (English Abstract for GB1257352)	B01J	11/52		X
/RB/	AN	1,257,352	4/23/69	Great Britain	B01J	11/08		
/RB/	AO	0,266,015 A1	10/30/87	Europe	B01J	23/68		
	AP							

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	AR						
	AS						

EXAMINER

/Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815,276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
P. M. McAllister et al.FILING DATE
April 1, 2004

GROUP ART UNIT

REFERENCE DESIGNATION

Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
/RB/	BA	4,731,350	3/15/88	Boxhoom et al.	502	231	
/RB/	BB	4,761,394	8/2/88	Lauritzen	502	348	
/RB/	BC	4,766,105	8/23/88	Lauritzen	502	216	
/RB/	BD	4,808,738	2/28/89	Lauritzen	549	536	
/RB/	BE	4,820,675	4/11/89	Lauritzen	502	216	
/RB/	BF	4,829,044	5/9/89	Boxhoom et al.	502	348	
/RB/	BG	4,845,296	7/4/89	Ahmed et al.	564	477	
/RB/	BH	4,939,114	7/3/90	Nojiri et al.	502	348	
/RB/	BI	4,994,587	2/19/91	Notermann et al.	549	534	
/RB/	BJ	5,100,859	3/31/92	Gerdes et al.	502	439	
/RB/	BK	5,145,824	9/8/92	Buffum et al.	502	216	
/RB/	BL	5,187,140	2/16/93	Thorsteinson et al.	502	348	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No	
	BM						
	BN						
	BO						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	
	BS	

EXAMINER

/Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified) LIST OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. TH2306 02 (US)		APPLICATION NUMBER 10/815,276	
				APPLICANT P. M. McAllister et al.			
				FILING DATE April 1, 2004		GROUP ART UNIT	

REFERENCE DESIGNATION				U.S. PATENT DOCUMENTS			
Examiner Initial	CA	Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
/RB/	CA	5,254,786	10/19/93	Lin et al.	585	645	
/RB/	CB	5,364,826	11/15/94	Kemp	502	315	
/RB/	CC	5,380,697	1/10/95	Matusz et al.	502	348	
/RB/	CD	5,380,885	1/10/95	Kemp	549	536	
/RB/	CE	5,407,888	4/18/95	Herzog et al.	502	317	
/RB/	CF	5,418,202	5/23/95	Evans et al.	502	348	
/RB/	CG	5,457,897	10/17/95	Becker	34	472	
/RB/	CH	5,502,020	3/26/96	Iwakura et al.	502	317	
/RB/	CI	5,597,773	1/28/97	Evans et al.	502	348	
/RB/	CJ	5,703,253	12/30/97	Evans et al.	549	536	
/RB/	CK	5,705,661	1/6/98	Iwakura et al.	549	536	
/RB/	CL	5,739,075	4/14/98	Matusz	502	302	
/RB/	CM	5,801,259	9/1/98	Kowaleski	549	536	
/RB/	CN	6,368,998	4/9/02	Lockemeyer	502	347	
/RB/	CO	6,498,122	12/24/02	Nakashiro	502	347	
/RB/	CP	6,656,874	12/2/03	Lockemeyer	502	347	
/RB/	CQ	2002/0010094	1/24/02	Lockemeyer	502	439	

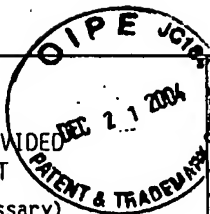
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	<div style="display: flex; justify-content: space-between;"> Translation Yes No </div>
	CS						
	CT						

EXAMINER /Randy Boyer/	DATE CONSIDERED 8/02/07
----------------------------------	-----------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH-2306-02 (US)APPLICATION NUMBER
10/815,276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
PAUL M. McALLISTER ET ALFILING DATE
4/1/04

GROUP ART UNIT

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	AA	4,511,671	4/85	Saito et al	502	242	
/RB/	AB	4,645,754	2/87	Tamura et al	502	527	
/RB/	AC	4,656,157	4/87	Hofmann et al	502	439	
/RB/	AD	2002/0010378	1/02	Kakimoto et al	568	867	
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
/RB/	AL	1,277,698	1/03	EP	C01B 3/38	B01J 8/06		
	AM							
	AN							
	AO							

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AR	
	AS	
	AT	

EXAMINER

/Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

JUL 16 2007

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815.276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Paul M. McAllister et alFILING DATE
01 April 2004

GROUP ART UNIT

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	AA	US3972829	8/76	Michalko	252	430	
/RB/	AB	US4005049	1/77	Fields	252	467	
/RB/	AC	US4908343	3/90	Bhasin	502	218	
/RB/	AD	US4797270	1/89	Cendan et al	423	625	
/RB/	AE	US4361504	11/82	Solomon et al	252	463	
/RB/	AF	US4366092	12/82	Winterton	252	476	
/RB/	AG	US4367167	1/83	Lee et al	252	472	
/RB/	AH	US4810689	3/89	Hayden	502	347	
/RB/	AI	US4186106	1/80	Rebsdatt et al	252	414	
/RB/	AJ	US4125480	11/78	Maxwell	252	414	
/RB/	AK	US4886917	12/89	Knopf et al	568	623	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
/RB/	AL	W0199623585	8/96	WO	B01J	23/66		
/RB/	AM	W0199641848	12/96	WO	C10G	45/08		
/RB/	AN	JP56164013	1980	Japan (Abstract)	C01F	7/02		
/RB/	AO	JP56105750	8/81	Japan (Abstract)	B01J	23/66		

OTHER DOCUMENTS (INCLUDING AUTHORS' TITLE, DATE, PERTINENT PAGES, ETC.)

/RB/	AR	B.E.T. (Brunauer, Emmett and Teller) Journal of American Chemical Society 60 (1938) pgs. 309-316.
/RB/	AS	"Kirk-Othmer Encyclopedia of Chemical Technology". 3 rd edition, Volume 9, 1980. pgs.432-447.
/RB/	AT	Fulton, J. W.. "Selecting the Catalyst Configuration". Chemical Engineering. May 12, 1986. pgs. 97-101.

EXAMINER /Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815,276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Paul M. McAllister et alFILING DATE
01 April 2004

GROUP ART UNIT

REFERENCE DESIGNATION OF U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	BA	US5057481	10/91	Bhasin	502	208	
/RB/	BB	US2901441	8/59	Waterman	252	463	
/RB/	BC	US5734068	3/98	Klopries et al	549	536	
/RB/	BD	US5668077	9/97	Klopries et al	502	347	
/RB/	BE	US4874739	10/89	Boxhoorn	502	218	
/RB/	BF	US4916243	4/90	Bhasin et al	549	534	
/RB/	BG	US5387751	2/95	Hayden et al	549	534	
/RB/	BH	US5447897	9/95	Kemp	502	303	
/RB/	BI	US5486628	1/96	Kemp	549	536	
/RB/	BJ	US5545603	8/96	Kemp	502	347	
/RB/	BK	US5663385	9/97	Kemp	549	536	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
/RB/	BL	EP211521	2/87	EP	B01J	23/66		
/RB/	BM	EP0937498	8/99	EP	B01J	23/66		
/RB/	BN	EP563414	10/93	EP	B01J	23/52		
/RB/	BO	EP568978	11/93	EP	G01C	19/56		

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	
	BS	
	BT	

EXAMINER

/Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815.276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Paul M. McAllister et alFILING DATE
01 April 2004

GROUP ART UNIT

REFERENCE DESIGNATION, U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	CA	US5055442	10/91	Osaka et al	502	439	
/RB/	CB	US5037794	8/91	Magistro	502	355	
/RB/	CC	US4994588	2/91	Kapicak et al	549	534	
/RB/	CD	US4994589	2/91	Notermann	549	534	
/RB/	CE	US5112795	5/92	Minahan et al	502	324	
/RB/	CF	US4797279	1/89	Karamata et al	424	93	
/RB/	CG	US5374748	12/94	Rizkalla	549	534	
/RB/	CH	US4361500	11/82	Mathe et al	252	430	
/RB/	CI	US3895093	07/75	Weidenbach et al	423	213.5	
/RB/	CJ	US4235798	11/80	Bartley et al.	260	449	
/RB/	CK	US4244889	01/81	Bartley et al.	564	132	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
/RB/	CL	FR2005978	10/69	France (abstract)	G08C	13/02		
/RB/	CM	EP716884	06/96	EP	B01J	23/66		
/RB/	CN	GB1489335	10/77	GB	B01J	23/66		
/RB/	CO	EP327356	8/89	EP	C07D	301/10		

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	CR	
	CS	
	CT	

EXAMINER

/Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815.276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Paul M. McAllister et alFILING DATE
01 April 2004

GROUP ART UNIT

REFERENCE DESIGNATION OF U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	DA	US4356312	10/82	Nieslen et al.	549	534	
/RB/	DB	US4368144	01/83	Mitsuhata et al.	252	463	
/RB/	DC	US4379134	04/83	Weber et al.	423	626	
/RB/	DD	US4420420	12/83	Mita et al.	502	261	
/RB/	DE	US4628129	12/86	Bartley	568	864	
/RB/	DF	US4665048	05/87	Van Leeuwen et al.	502	221	
/RB/	DG	US5935894	08/99	Kanazirev	502	341	
/RB/	DH	US6103916	08/00	Takada et al.	549	534	
/RB/	DI	US6281160	08/01	Basset et al.	502	332	
/RB/	DJ	US5380697	01/95	Matusz et al.	502	348	
/RB/	DK	US4361503	11/82	Dwyer et al.	252	455	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
/RB/	DL	EP1201301	5/02	EP	B01J	23/58		
/RB/	DM	WO200226370	4/02	WO	B01J	8/06		
/RB/	DN	WO2004101144	11/04	WO	B01J	23/50		
/RB/	DO	WO2004094055	11/04	WO	B01J			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	DR	
	DS	
	DT	

EXAMINER /Randy Boyer/

DATE CONSIDERED 8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815,276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Paul M. McAllister et alFILING DATE
01 April 2004

GROUP ART UNIT

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	EA	US2424083	07/47	Finch et al.	252	204	
/RB/	EB	US4382149	05/83	Krueger	568	473	
/RB/	EC	US4532231	07/85	Johnson	502	347	
/RB/	ED	US5457897	10/95	Becker	34	472	
/RB/	EE	US4837194	6/89	Hayden	502	348	
/RB/	EF	US6511938	1/03	Liu et al	502	347	
/RB/	EG	US3997476	12/76	Cull	252	463	
/RB/	EH	US5447897	9/95	Kemp	502	303	
/RB/	EI	US4366093	12/82	Shiozaki et al	252	477	
/RB/	EJ	US6325919	12/01	Koyama et al	208	134	
/RB/	EK	US4921681	5/90	Ozero et al	422	197	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
/RB/	EL	W02005023417	3/05	WO	B01J	23/68		
/RB/	EM	W02003072246	9/03	WO	B01J	23/66		
/RB/	EN	EP1277698	1/03	EP	C01B	3/38		
/RB/	EO	EP1002575	5/00	EP	B01J	23/04		

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	ER	
	ES	
	ET	

EXAMINER /Randy Boyer/

DATE CONSIDERED 8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH2306 02 (US)APPLICATION NUMBER
10/815.276LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Paul M. McAllister et alFILING DATE
01 April 2004

GROUP ART UNIT

REFERENCE DESIGNATION OF U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
/RB/	EA	US4033903	7/77	Maxwell	252	476	
/RB/	EB	US20040225138	11/04	McAllister et al	549	523	
/RB/	EC	US20040260103	12/04	Matusz et al	549	534	
/RB/	ED	US20040224841	11/04	Matusz et al	502	347	
/RB/	EE	US6631890	10/03	Lau	261	94	
/RB/	EF	US5626455	5/97	Keller et al	414	288	
/RB/	EG	US5588986	12/96	Davis et al	95	211	
/RB/	EH	US20020137957	7/04	Jeong	455	566	
/RB/	EI	US2238474	4/41	McNamee et al	260	348	
	EJ						
	EK						

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation Yes No	
	EL						
	EM						
	EN						
	EO						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	ER	
	ES	
	ET	

EXAMINER

/Randy Boyer/

DATE CONSIDERED

8/02/07

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.